

- 1:30 D-22 INVITED—TOTAL SCATTERING: A ‘COMPLETE’ STRUCTURAL FINGERPRINT OF NANOPARTICLES**  
Th. Proffen, Los Alamos National Laboratory, Los Alamos, NM
- 2:00 D-62 A PAIR-DISTRIBUTION FUNCTION AND RIETVELD ANALYSIS OF AGED U-Nb ALLOYS**  
H.M. Volz, Th. Proffen, R.E. Hackenberg, A.M. Kelly, W.L. Hulst, A.C. Lawson, R.D. Field, D.F. Teter, D.J. Thoma, Los Alamos National Laboratory, Los Alamos, NM  
M.A. Rodríguez, Sandia National Laboratory, Albuquerque, NM
- 2:20 C-7 EMPLOYING X-RAY SCATTERING TO CHARACTERIZE MATERIALS WITH GRAIN SIZES IN THE NANO-REGIME**  
E.A. Laitila, D.E. Mikkola, Michigan Technological University, Houghton, MI
- 2:40 D-86 PBZR1-XTIXO3 BY SOFT SYNTHESIS: A STRUCTURAL POINT OF VIEW**  
S.K. Pradhan, The University of Burdwan, Burdwan, India and Central Michigan University, Mount Pleasant, MI  
M. Gateshki, V. Petkov, Central Michigan University, Mount Pleasant, MI  
M. Niederberger, Max Planck Institute of Colloids and Interfaces, Potsdam, Germany and ETH Zurich, Zurich, Switzerland  
Y. Ren, Argonne National Laboratory, Argonne, IL
- 3:00 C-9 USAXS FACILITY AT ADVANCED PHOTON SOURCE FOR ANALYSIS OF MODERN MATERIALS NANOSTRUCTURES**  
J. Ilavsky, APS–Argonne National Laboratory, Argonne, IL
- 3:20 BREAK**
- 3:40 D-1 14 INVITED—NANOSTRUCTURED MATERIALS CHARACTERIZATION BY X-RAY DIFFRACTION**  
I. Dragomir – Cernatescu, PANalytical Inc., Natick, MA  
R.L. Snyder, M. Kirkham, R. Yang, Z.L. Wang, Georgia Institute of Technology, Atlanta, GA
- 4:10 D-76 COMPARISON OF SIMULATED AND EXPERIMENTAL XRPD PATTERNS OF Ag WITH TWIN FAULTS USING MAUD AND DIFFAX**  
P.J. Shields, SSCI, Inc., West Lafayette, IN  
N. Dunwoody, Nucrust Pharmaceuticals, Inc., Wakefield, MA
- 4:30 D-75 PHASE STABILITY OF SOFC CATHODE MATERIALS LANTHANUM STRONTIUM COBALT OXIDE AND LANTHANUM STRONTIUM IRON OXIDE UNDER LOW PARTIAL PRESSURES OF OXYGEN**  
J. Ovenstone, J. White, S.T. Misture, Kazuo Inamori School of Engineering at Alfred University, Alfred, NY
- 4:50 D-51 CRYSTALLITE MORPHOLOGY IN GOLD CATALYSTS OBTAINED VIA RIETVELD REFINEMENT**  
X. Bokhim, A. Morales, R. Zanella, Universidad Nacional Autónoma de México, Mexico D. F., Mexico
- 5:10 D-85 MECHANO-SYNTHESIS AND MICROSTRUCTURE CHARACTERIZATION OF NANOCRYSTALLINE TiC**  
S. K. Pradhan, The University of Burdwan, Burdwan, India and Central Michigan University, Mount Pleasant, MI  
B. Ghosh, L.K. Samanta, The University of Burdwan, Burdwan, India